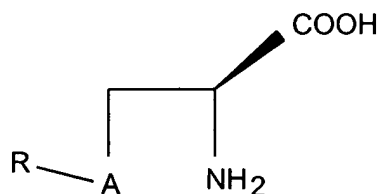


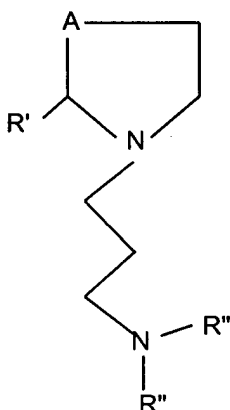
## ABSTRACT OF THE DISCLOSURE

Disclosed is a prodrugs of the formula:



5 where A is a sulfur or a selenium, and R is derived from a mono- di- or oligo- saccharide.

Also disclosed is a prodrug of the formulas;

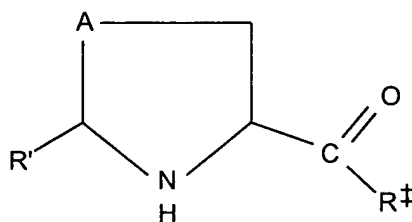


where A is sulfur or selenium, R' is derived from a sugar and R' has the formula (CHOH)<sub>n</sub>CH<sub>2</sub>OH, where n is 1 to 5, or R' is an alkyl or aryl group, or

10 R' is =O, and the R'' groups may be the same or different and may be hydrogen, alkyl, alkoxy, carboxy.

Also disclosed is a conjugate of an antioxidant vitamin and a thiolamine or selenolamine.

Also disclosed is a prodrug of the formula;

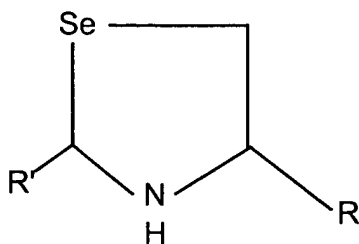


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where A is sulfur or selenium, and R' is derived from a sugar and R' has the formula

$(\text{CHOH})_n\text{CH}_2\text{OH}$ , where  $n$  is 1 to 5, or  $\text{R}'$  is also be an alkyl or aryl group, or  $\text{R}'$  is  $=\text{O}$ , and  $\text{R}^\dagger$  is an alkoxy, or an amine group.

Also disclosed is a prodrug of the formula:



- 5  $\text{R}$  is  $\text{COOH}$  or  $\text{H}$ , and  $\text{R}'$  is derived from a sugar and  $\text{R}'$  has the formula  $(\text{CHOH})_n\text{CH}_2\text{OH}$ , where  $n$  is 1 to 5, or  $\text{R}'$  is an alkyl or aryl group, or  $\text{R}'$  is  $=\text{O}$ .

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